## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 21 July 2005 (21.07.2005)

**PCT** 

## (10) International Publication Number WO 2005/066348 A3

- (51) International Patent Classification<sup>7</sup>: C12N 15/62, A61K 47/48, C07K 14/54, 16/30, A61P 35/00
- (21) International Application Number:

PCT/GB2005/000007

- (22) International Filing Date: 5 January 2005 (05.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

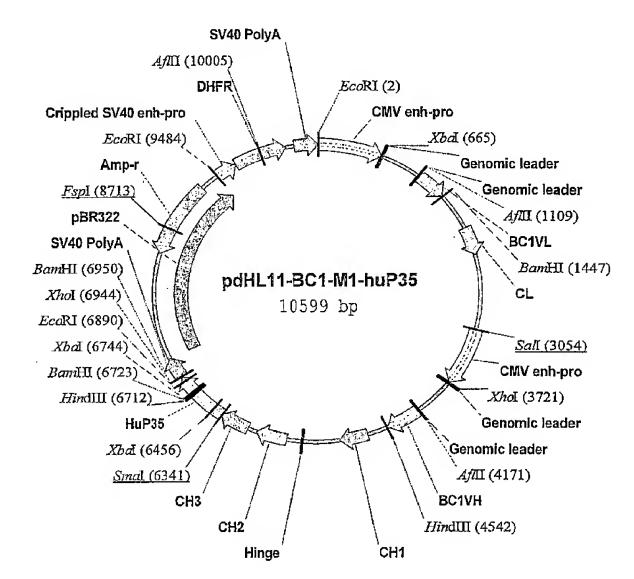
60/534,307 5 January 2004 (05.01.2004) US

- (71) Applicants (for all designated States except US): EMD LEXIGEN RESEARCH CENTER CORP. [US/US]; 45a Middlesex Turnpike, Bedford Campus, Billerica, MA 01821 (US). ANTISOMA PLC [GB/GB]; West Africa House, Hanger Lane, Ealing, London W5 3QR (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GILLIES, Stephen [US/US]; 47 Swanson Lane, Carlisle, MA 01741 (US). LO, Kin-Ming [US/US]; 6 Carol Lane, Lexington, MA 02420

- (US). LAN, Yan [CN/US]; 21 Newton Street, Belmont, MA 02178 (US). VERMA, Rakesh [GB/GB]; 15 Laurel Court, Vicars Bridge Close, Alperton, London HA0 1XY (GB).
- (74) Agent: THOMAS, Philip; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

## (54) Title: INTERLEUKIN-12 TARGETED TO ONCOFOETAL FIBRONECTIN



(57) Abstract: The invention provides a compound comprising a target specific portion and an effector portion wherein the target specific portion comprises or consists of a monoclonal antibody having specificity for oncofoetal fibronectin, or a fragment or variant thereof which retains the antigen binding specificity of the parent monoclonal antibody and the effector portion comprises or consists of interleukin-12, or a functional fragment or variant thereof, characterised in the monoclonal antibody having specificity for oncofoetal fibronectin binds to a region of oncofoetal fibronectin other than the ED-B region. The invention further provides nucleic acids encoding the compounds of the invention, and the use of such compounds in medicine, e.g. in the treatment of cancer.





## WO 2005/066348 A3



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:** 

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:

10 November 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.